

Claims

1. A system for the projection of cinematographic works or digital works with sound with at least one sound channel, comprising a screen (4; 10; 20; 30) and, for the said sound channel, at least one woofer (6; 11L; 11C; 11R; 21L; 21C; 21R; 31L; 31CH; 31CL; 31R) and at least one medium/treble speaker (7; 12L; 12C; 12R; 22L; 22C; 22R; 32L; 32CH; 32CL; 32R), characterised in that:

- the screen is a non-perforated screen;

10 - the medium/treble speaker is a flat sound transducer placed against the screen to the rear thereof in relation to the direction of projection; and

15 - an extreme treble speaker (8; 13L; 13C; 13R; 23L; 23C; 23R; 33L; 33CH; 33CL; 33R) is disposed on the periphery of the screen.

2. A system according to claim 1 in which the said medium/treble transducer is disposed substantially above the woofer.

3. A system according to claim 1 or 2, in which the extreme treble speaker is disposed above the screen, substantially above the medium/treble transducer.

25 4. A system according to any of the claims 1 to 3 for the projection of cinematographic works or digital works with multi-channel sound comprising at least two lateral channels, in which the extreme treble speakers (13L; 13R; 33L; 33R) of the said lateral channels are disposed on either side of the screen.

5. A system according to claim 4, in which the extreme treble speakers of the said lateral channels are disposed

substantially at the height of the flat medium/treble transducers of the corresponding channels.

6. A system according to claims 1 to 3 for the projection of cinematographic works or digital works with multi-channel sound comprising two lateral channels, in which the extreme treble speakers (23L, 23R) of the said lateral channels are disposed above the screen.

5
7. A system according to claim 6, in which the extreme treble speakers of the said lateral channels are disposed substantially above the flat medium/treble transducers of the corresponding channels.

10
8. A system according to any of the claims 1 to 7 for the projection of cinematographic works or digital works with four-channel sound comprising two lateral channels, a central-high channel and a central-low channel in which the extreme treble speaker (33CH) of the said central-high channel is disposed above the screen, and the extreme treble speaker (33CL) of the said central-low channel is disposed under the screen.

15
20
9. A system according to any of the claims 1 to 8, in which the woofer(s) is(are) arranged to produce sounds with a frequency that is lower than around 300 Hz to 800 Hz.

25
10. A system according to any of the claims 1 to 9, in which the extreme treble speaker(s) is(are) arranged to produce sounds with a frequency that is higher than around 3 kHz to 5 kHz.